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Release Notes for Micro-g LaCoste g7.0 Absolute Gravimeter Software

1. Upgrades, Features, and Bug Fixes

- Includes and Improves upon all *g* 6.0 features.
- Real-time stamps on drops.
- Real-time Pause function.
- WEO laser lock detection.
- Support for “Kronos” GPS-based clock system.
- Password security function built in to program.
- New “View Channels” and “Help” buttons.
- Improved graph scale functionality.
- Clarified menus and Setup windows.

2. Details

- Previous versions of the g software predicted the drop times based on the start time and requested drop interval. In rare cases, and for very fast acquisition intervals, this could cause a discrepancy between the predicted and actual drop times. This has been corrected. The ultimate accuracy depends on the system controller (computer), but typically the drops are timed to better than about 50 ms.
- The ability to stamp the drops with real time values enables the program to have a Pause function during data acquisition. This allows the user to make an adjustment (connect a sensor cable, for example) without having to restart the entire project.
- Using the “Laser Lock” signal on the back of the WEO lasers and Channel 7 on the SIM (or older Patch Panel units), the software can be set up to ignore drops that occur while the laser is unlocked.
- g7 supports the Kronos GPS-based clock system. For more information on this unit, please go to http://microglacoste.com/kronos.htm

3. Notes for previous g users

- Height names. To eliminate a large source of confusion, as of g7, the following heights have been renamed:

- "Reference Height" → "Setup Height".
- "Datum Height" → "Transfer Height".
- "Factory Height" remains the same.

Also included in the project.txt output file is the total, actual measurement height (the sum of the Factory Height and Setup Height).

- Passwords. Password files generated for versions of g previous to g7 will NOT work with g7. Users that upgrade to g7 will need to uninstall previous versions of g, install g7 and follow the built in instructions to create a small binary file, SysChk.bin, and send it to mking@microglacoste.com to receive an updated password file. This is required for each computer that runs g. Note that all previous g data, point files, and templates will still exist and operate with g7.

4. **PCI vs. ISA**.
   - There are still effectively two versions of g7: one for real-time acquisition using an ISA Guide Time Interval Analyzer Card (most systems shipped prior to 2004) and another for real-time acquisition using an PCI Guide Time Interval Analyzer Card (most systems shipped after 2003). You will need to install the correct version of g7 to operate your gravimeter – contact Micro-g if you have any questions as to the version of your TIA card (typically just a digital photo of the Time Interval Card is enough).

5. Any questions regarding the features of g7 or the upgrade process should be directed to Derek van Westrum at derek@microglacoste.com.